

ABSTRACT OF THE DISCLOSURE

METHOD AND APPARATUS FOR INTERFACE SIGNALING USING SINGLE-
ENDED AND DIFFERENTIAL DATA SIGNALS

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A method and apparatus for interface signaling using single-ended and differential data signals improves performance of an interface. A differential pair of data signals and at least one single-ended data signal are transmitted over the interface. The differential pair of data signals is received by a differential receiver and the single-ended data signals are received by a receiver that uses the differential pair of data signals to improve the detection of the single-ended data signal. A novel receiver having a differential input and a single-ended input combines the differential pair of data signals with a single-ended data signal to detect the single-ended data signal providing improved common-mode rejection and reducing the error rate of the single-ended signal. Multiple single-ended signals may be associated with one differential signal, providing a scalable architecture grouping a number of single-ended signals with each differential pair of signals.

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